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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

03/24/2009

Brinks Hofer Gilson & Lione P.O. Box 10395 Chicago, IL 60610 EXAMINER

NGUYEN, THANH NHAN P

ART UNIT PAPER NUMBER

2871 DATE MAILED: 03/24/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/722.907	11/25/2003	Tetsushi Tanada	9281-4715	2923

TITLE OF INVENTION: REFLECTOR AND LIQUID CRYSTAL DISPLAY PANEL

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	06/24/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

maintenance fee notificat	correspondence includired below or directed others. ENCE ADDRESS (Note: Use Bl.					•			correspondence address as ate "FEE ADDRESS" for	
CURRENT CORRESPONDE		Note: A certificate of mailing can only be used for domestic mailings of t Fee(s) Transmittal. This certificate cannot be used for any other accompanyi papers. Each additional paper, such as an assignment or formal drawing, make its own certificate of mailing or transmission.								
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Chicago, IL 6061	10				trans	mitted to the USP	Stop ГО (57	1) 273-2885, on the da	te indicated below.	
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APPLICATION NO.	APPLICATION NO. FILING DATE			FIRST NAMED INVENTOR			ATTORNEY DOCKET NO. CONFIRMATION			
10/722,907	11/25/2003	-		Tetsushi Tanada				9281-4715	2923	
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3. ASSIGNEE NAME A	ND RESIDENCE DATA	A TO BI	E PRINTED ON T	THE PATENT (print o	or type	e)				
PLEASE NOTE: Unle	ess an assignee is identi n in 37 CFR 3.11. Comp	ified be	low, no assignee	data will appear on t	he pa	tent. If an assigne	ee is id	lentified below, the do	cument has been filed for	
(A) NAME OF ASSIC	•	one tion to	i uns form is tvo	(B) RESIDENCE: (C	_	ě.	OUNT	RY)		
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Please check the appropri	ate assignee category or	categor	ies (will not be pr	inted on the patent):	<u> </u>	Individual 🖵 Co	rporati	on or other private gro	up entity Government	
4a. The following fee(s) a	are submitted:		4b		•	se first reapply an	y prev	iously paid issue fee s	hown above)	
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☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			a)	☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any						
	•			overpayment, to I	Depós	it Account Numbe	ř	(enclose an	extra copy of this form).	
5. Change in Entity Stat	t us (from status indicated s SMALL ENTITY statu			☐ b Applicant is no	long	er claiming SMAI	L.EN	ΓΙΤΥ status. See 37 CF	R 1 27(g)(2)	
••					_	-			e assignee or other party in	
nterest as shown by the r	records of the United Sta	ites Pate	nt and Trademark	Office.					_	
Authorized Signature						Date				
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This collection of informa	ation is required by 37 C	FR 1 31	1 The informatio	m is required to obtain	or re	etain a benefit by th	ne nuhl	ic which is to file (and	by the USPTO to process)	
an application. Confident submitting the completed his form and/or suggestion	iality is governed by 35 l application form to the ons for reducing this but	U.S.C. USPTO	122 and 37 CFR D. Time will vary ould be sent to the	1.14. This collection i depending upon the chief Information C	is esti indivi Officer	mated to take 12 n dual case. Any co r, U.S. Patent and	ninutes mment Traden	s to complete, including s on the amount of tim nark Office, U.S. Depa	g gathering, preparing, and the you require to complete the threat of Commerce, P.O.	

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75	90 03/24/2009		EXAM	INER
Brinks Hofer Gils	son & Lione	NGUYEN, THANH NHAN P		
P.O. Box 10395			ART UNIT	PAPER NUMBER
Chicago, IL 60610			2871	
			DATE MAILED: 03/24/200	Q .

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/722,907	TANADA ET AL.	
Notice of Allowability	Examiner	Art Unit	
	THANH-NHAN P. NGUYEN	2871	
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to 12/17/08.	(OR REMAINS) CLOSED in this a or other appropriate communicati GHTS. This application is subject	application. If not included on will be mailed in due course. THIS	
2. ☑ The allowed claim(s) is/are <u>21-24 and 26-30</u> .			
 3. Acknowledgment is made of a claim for foreign priority unally All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application No.		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm	IENT of this application.		
INFORMAL PATENT APPLICATION (PTO-152) which give 5. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the factor of the deposit of the d	st be submitted. Son's Patent Drawing Review (PT) Son Amendment / Comment or in the Son Amendment / Comment	O-948) attached e Office action of wings in the front (not the back) of 21(d). L must be submitted. Note the	
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informa 6. ☐ Interview Summa Paper No./Mail I 7. ☒ Examiner's Amer 8. ☒ Examiner's State 9. ☐ Other	ry (PTO-413), Date	

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EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes

and/or additions be unacceptable to applicant, an amendment may be filed as provided

by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be

submitted no later than the payment of the issue fee.

This application is in condition for allowance except for the presence of claims 1,

4-6 and 9-20 directed to non-elected with traverse. Examiner is authorized to cancel

these claims by Attorney Siller on 3/11/2009. Accordingly, claims 1, 4-6 and 9-20 are

canceled.

Allowable Subject Matter

Claims 21-24 and 26-30 are allowed.

Reasons for Allowance

Claims 21-24 and 26-30 are allowed since there is no prior art of record that teaches

or suggests a reflector attached to an outer surface of a glass substrate and a

method of forming thereof comprising a relationship of various elements as claimed

with the specific allowable subject matter cited in the following claim:

Claims 21 and 22:

a reflective film

• <u>a processed resin layer having a plurality of recesses, which define a reflection</u>

characteristic of the reflective film

• a moisture-proof film base that supports the processed resin layer

• a support resin layer having a high glass transition temperature interposed between the processed resin layer and the moisture-proof film base

- wherein the support resin layer having a higher glass transition temperature and lower moisture absorption property than those of the processed resin layer
- wherein the reflective film is disposed between the adhesive film and brought into direct contact with the processed resin layer such that a shape of the plurality of recesses of the processed resin layer is reflected in the reflective film and wherein the adhesive film and the glass substrate, in that order, are laminated upon the reflective film, wherein the recesses are formed in a spherical shape for reflection and randomly arranged, and contact portions between the recesses are formed in a peaked shape

Claims 23, 27, 29 and 30 are allowed since they depend on allowed claim 21.

Claims 24, 26 and 28 are allowed since they depend on allowed claim 22.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Yoshii et al (US 2002/0030774) disclose a reflector attached to an outer surface of a glass substrate comprising a reflective film; a processed resin layer having a plurality of recesses, which define a reflection characteristic of the reflective film; a moisture-proof film base that supports the processed resin layer. However, Yoshii et al lack disclosure of a support resin layer having a high glass transition temperature interposed between the processed resin layer and the

moisture-proof film base; wherein the support resin layer having a higher glass transition temperature and lower moisture absorption property than those of the processed resin layer.

Akins et al (US 6285425) disclose a ridged reflector attached to an outer surface of a glass substrate comprises a polymeric layer having a ridged surface and an opposite surface opposite the ridged surface. The ridged surface includes a series of ridges. Each of said ridges has a first face and a second face intersecting the first face. The first face is oriented at a first angle relative to a plane parallel to the opposite surface. A reflective metallic layer overlies at least the first faces of the polymeric layer.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to (Nancy) Thanh-Nhan P. Nguyen whose telephone number is 571-272-1673. The examiner can normally be reached on Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on 571-272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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Art Unit: 2871

Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

-- March 12, 2009

ΤN

/David Nelms/

Supervisory Patent Examiner, Art Unit 2871